

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Amend claims 1-3, 6-7, and 14.
Add new claims 19-20.

Listing of Claims:

- 1 1. **(Currently amended)** An apparatus comprising:
2 a capacitor having a body and a pair of terminals attached to the
3 body; and
4 a conductor ~~defined~~ printed on the body and connecting the
5 terminals, the conductor having an inductance (L) defining with a
6 capacitance (C) of the capacitor a parallel LC circuit.
- 1 2. **(Currently amended)** The apparatus of claim 4 19 wherein:
2 the conductor is plated on the body.
- 1 3. **(Currently amended)** The apparatus of claim 4 19 wherein:
2 the conductor is printed on the body.
- 1 4. **(Original)** The apparatus of claim 1 wherein:
2 the conductor has a width defining the inductance such that the
3 inductance is varied by varying the width of the conductor.
- 1 5. **(Original)** The apparatus of claim 1 forming a notch filter.
- 1 6. **(Currently amended)** The apparatus of claim 5 wherein:
2 the capacitor has a self-resonant frequency greater than or equal to
3 a notch center frequency of the notch filter.
- 1 7. **(Currently amended)** A notch filter having a notch center

2 frequency, comprising:
3 a capacitor having a body and a pair of terminals attached to the
4 body, the capacitor having a self-resonant frequency equal to or greater
5 than the notch center frequency; and
6 a conductive trace extending along the body and connecting the
7 terminals, the trace having an inductance.

1 8. **(Original)** The notch filter of claim 7 wherein:
2 the trace is defined on the body.

1 9. **(Original)** The notch filter of claim 8 wherein:
2 the trace is plated on the body.

1 10. **(Original)** The notch filter of claim 8 wherein:
2 the trace is printed on the body.

1 11. **(Original)** The notch filter of claim 7 wherein:
2 the trace has a width defining the inductance such that the
3 inductance is varied by varying the width of the trace.

1 12. **(Original)** The notch filter of claim 7 for connecting between
2 two discrete segments of a signal conductor defined by a printed circuit
3 board that also defines a ground plane, wherein:
4 a product of capacitance and inductance of a virtual conductive
5 loop formed by the notch filter and the ground plane equals the notch
6 center frequency.

1 13. **(Original)** A printed circuit board (PCB) comprising:
2 a signal conductor comprising a pair of discrete conductor
3 segments defined by the PCB;
4 a ground plane defined by the PCB;

5 a capacitor having a body and a pair of terminals on the body that
6 connect the capacitor between the segments;
7 a conductor defined on the body and connecting the pair of
8 terminals and having an inductance, the conductor forming with the
9 capacitor a notch filter for the signal conductor such that a product of
10 capacitance and inductance of a virtual conductive loop formed by the
11 notch filter and the ground plane equals a center frequency of a notch of
12 the notch filter.

1 14. **(Currently amended)** The PCB of claim 13 wherein:
2 the capacitor has a self-resonant frequency equal to or greater than
3 the center frequency of the notch filter.

1 15. **(Original)** The PCB of claim 13 wherein:
2 the conductor is plated on the body.

1 16. **(Original)** The PCB of claim 13 wherein:
2 the conductor is printed on the body.

1 17. **(Original)** The PCB of claim 13 wherein:
2 the capacitor is a surface-mount capacitor.

1 18. **(Original)** The PCB of claim 13 wherein:
2 the conductor has a width defining the inductance of the conductor such
3 that the notch filter is tuned by varying the width of the conductor.

1 19. **(New)** An apparatus comprising:
2 a capacitor having a body and a pair of terminals attached to the
3 body; and
4 a conductor defined on the body and connecting the terminals, the
5 conductor having an inductance (L) defining with a capacitance (C) of the

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6 capacitor a parallel LC circuit; wherein
7 the conductor has a width defining the inductance such that the
8 inductance is varied by varying the width of the conductor.

1 20. **(New)** The apparatus of claim 19 forming a notch filter.